

p0857, p1121, p1135

POWER ON

**Fault**  
with OFF1 - or OFF3  
response

p0115[3]

From all states

"Commissioning completed"  
(p0010 = 0 and p0009 = 0)  
0 = External power-on inhibit  
active [2634.6])  
ON/OFF1 (STWA.0) <2> <3>  
OC/OFF2 (STWA.1) <2> <3>  
OC/OFF3 (STWA.2) <2> <3>

**S1: Power-on inhibit**  
ZSWA.6 = 1, ZSWA.0/1/2/11 = 0  
Pulses inhibited, infeed off

"Commissioning"  
(p0010 <> 0 or p0009 <> 0)  
0 = External power-on inhibit  
active [2634.6])  
OC/OFF2 (STWA.1) <2> <3>  
OC/OFF3 (STWA.2) <2> <3>

**S2: Ready to power-up**  
ZSWA.0 = 1, ZSWA.11 = 0  
Infeed off  
Wait for power-on

Test mode inactive  
p6650 = 0

Test S\_src ON/OFF  
p6651 (0)

**S7: Test mode**  
ZSWA.13 = 1

Test mode active  
p6650 <> 0

OC/OFF2 (STWA.1) <2> <3>  
"Enable operation" (STWA.3) <3>  
n = 0  
2 \* p1135 expired

OC/OFF2 <2> <3> (STWA.1)

"Enable operation" (STWA.3) <3>  
n = 0  
2 \* p1135 expired

**S3a: Power-on operation**  
ZSWA.0/1 = 1, ZSWA.2/6/11 = 0  
GSV test, infeed on,  
auxiliaries on

ON/OFF1 (STWA.0) <3>

ON/OFF1 (STWA.0) <2> <3>

Control (gate)  
infeed  
r0863.1

Infeed ready  
p0864  
from B\_INFMV, A\_INFMV  
(r0863.0) [8732], [8932]

**S3: Ready**  
ZSWA.0/1 = 1, ZSWA.2/6/11 = 0

OC/OFF2 (STWA.1) <2> <3>

OC/OFF2 (STWA.1) <2> <3>  
OC/OFF3 (STWA.2) <2> <3>

**S5a: Ramp stop**  
ZSWA.0/1/11 = 1, ZSWA.2/6 = 0

**S5b: Fast stop**  
ZSWA.0/1/11 = 1, ZSWA.2/6 = 0  
Bring the drive to n = 0 along the  
fast stopping ramp or torque limit,  
then inhibit the pulses

"Enable operation" (STWA.3) <3>  
"PSA pulse inhibit due to undervoltage" (r0046.13)  
"Operating enable from automatic restart" (r0046.14)  
"Output switch opened" (r0046.21)  
"Disconnecter opened" (r0046.22)  
"MDS changeover active" (r0046.24)  
"Function bypass active" (r0046.25)

"Enable operation" (STWA.3) <3>  
"PSA pulse inhibit" (r0046.13)  
"Enable from automatic restart missing" (r0046.14)  
"MDS changeover active" (r0046.24)  
"Function bypass active" (r0046.25)

**S4: Operation**  
ZSWA.0/1/2/11 = 1, ZSWA.6 = 0  
Pulses enabled, controller enabled  
setpoints enabled

ON/OFF1 (STWA.0) <3>

ON/OFF1 (STWA.0) <2> <3>

OC/OFF3 (STWA.2) <2> <3>

Faults  
F07220  
F07803

Missing enable  
signals  
[2634]

<1> The sequence control is implemented according to the PROFIdrive profile.  
<2> These control commands can also be triggered by a fault response.  
<3> STWA.xx = control word sequence control bit xx (r0898) [2501].  
<4> ZSWA.xx = status word, sequence control bit xx (r0899) [2503].